

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 determining whether a wireless communication(s) received by a client was intended for a
3 client(s) on an extended coverage network serviced by the client receiving the communication.
- 1 2. The method of claim 1, further comprising:
2 selectively forwarding the communication(s) intended for the client(s) on the extended
3 coverage network.
- 1 3. The method of claim 2, wherein forwarding the communication(s) intended for the
2 client(s) on the extended coverage network comprises:
3 transmitting the communication(s) as received.
- 1 4. The method of claim 2, wherein forwarding the communication(s) intended for the
2 client(s) on the extended coverage network comprises:
3 translating the communication(s) between a primary network and the extended coverage
4 network.
- 1 5. The method of claim 4, wherein translating the communication(s) between a primary
2 network and the extended coverage network comprises:
3 utilizing a network address translation (NAT) table(s) to determine for which client on
4 the extended coverage network the communication(s) was intended.

1 6. The method of claim 4, wherein translating the communication(s) between a primary
2 network and the extended coverage network comprises:
3 translating the communication(s) between a first network protocol and a second network
4 protocol.

1 7. An electronic appliance, comprising: /
2 one or more dipole antenna(e);
3 one or more wireless network interface(s), coupled with the one or more dipole
4 antenna(e), to communicate with other devices; and
5 an extender engine coupled with the wireless network interface(s), the extender engine to
6 function as a client to a first access point and the extender engine to function as a second access
7 point to one or more other client(s).

1 8. The electronic appliance of claim 7, wherein the extender engine to function as a second
2 access point to one or more other client(s) comprises:
3 the extender engine to send and receive communications between client(s) on an
4 extended coverage network and resource(s) on a primary network.

1 9. The electronic appliance of claim 8, wherein the extender engine to send and receive
2 communications between client(s) on an extended coverage network and resource(s) on a
3 primary network comprises:
4 the extender engine to transmit the communication(s) as received.

1 10. The electronic appliance of claim 8, wherein the extender engine to send and receive
2 communications between client(s) on an extended coverage network and resource(s) on a
3 primary network comprises:

4 the extender engine to translate the communication(s) between the primary network and
5 the extended coverage network.

1 11. The electronic appliance of claim 10, wherein the extender engine to translate the
2 communication(s) between the primary network and the extended coverage network comprises:

3 the extender engine to utilize a network address translation (NAT) table(s) to determine
4 for which client(s) the communication(s) was intended.

1 12. The electronic appliance of claim 10, wherein the extender engine to translate the
2 communication(s) between the primary network and the extended coverage network comprises:

3 the extender engine to translate the communication(s) between a first network protocol
4 and a second network protocol.

1 13. A storage medium comprising content which, when executed by an accessing machine,
2 causes the accessing machine to function as a client to a first access point and to function as a
3 second access point to one or more other client(s).

1 14. The storage medium of claim 13, wherein the content to function as a second access point
2 to one or more other client(s) comprises content which, when executed by the accessing

3 machine, causes the accessing machine to send and receive communications between client(s) on
4 an extended coverage network and resource(s) on a primary network.

1 15. The storage medium of claim 14, wherein the content to send and receive
2 communications between client(s) on an extended coverage network and resource(s) on a
3 primary network comprises content which, when executed by the accessing machine, causes the
4 accessing machine to transmit the communication(s) as received.

1 16. The storage medium of claim 14, wherein the content to send and receive
2 communications between client(s) on an extended coverage network and resource(s) on a
3 primary network comprises content which, when executed by the accessing machine, causes the
4 accessing machine to translate the communication(s) between the primary network and the
5 extended coverage network.

1 17. The storage medium of claim 16, wherein the content to translate the communication(s)
2 between the primary network and the extended coverage network comprises content which,
3 when executed by the accessing machine, causes the accessing machine to utilize a network
4 address translation (NAT) table(s) to determine for which client(s) the communication(s) was
5 intended.

1 18. The storage medium of claim 16, wherein the content to translate the communication(s)
2 between the primary network and the extended coverage network comprises content which,

3 when executed by the accessing machine, causes the accessing machine to translate the
4 communication(s) between a first network protocol and a second network protocol.

1 19. An apparatus, comprising:
2 one or more dipole antenna(e);
3 one or more wireless network interface(s), coupled with the dipole antenna(e), to
4 communicate with other devices; and
5 control logic coupled with the wireless network interface(s), the control logic to function
6 as a client to a first access point and the control logic to function as a second access point to one
7 or more other client(s).

1 20. The apparatus of claim 19, wherein the control logic to function as a second access point
2 complies with the IEEE 802.11 specification.

1 21. The apparatus of claim 20, further comprising the control logic to create two or more
2 virtual networks.

1 22. The apparatus of claim 21, further comprising the control logic to time-share one wireless
2 network interface between two or more virtual networks.

1 23. The apparatus of claim 22, wherein the control logic to time-share utilizes one or more of
2 802.11 RTS/CTS and CTS-To-Self techniques.